



# **2009-2010 Influenza Epidemiology and Surveillance Weekly Status Report for Kansas**

**Week Ending March 6, 2010**

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# Executive Summary

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Kansas Department of Health and Environment***

## **Overview**

Enhanced influenza surveillance continues to remain a critical component of our response to the 2009 H1N1 influenza A virus pandemic. We rely heavily on our partners at the local level to track and monitor the Influenza activity regionally and statewide. Although overall activity throughout the state remains low, some indicators are showing increases in potential influenza activity again this week. The proportion of specimens testing positive for influenza A 2009 H1N1 at the Kansas Health and Environmental Laboratories increased slightly this week as did the proportion of deaths reported to KDHE that were attributed to pneumonia or influenza. The rate of hospital admissions per 100 bed days due to pneumonia or influenza decreased for the first time in four weeks. Nonetheless, the proportion of hospitalizations for patients less than five years of age remains elevated (22%) for the seventh consecutive week. The increase in hospitalizations for this age group may be due to other causes of pneumonia. We will continue to monitor all influenza surveillance data to assess any changes or trends.

## **Outpatient Visits for Influenza-like Illness (ILINet)**

Forty-one (59%) of the 70 ILINet sites in Kansas reported data for the week ending March 6<sup>th</sup>. The statewide percentage of patients seeking care for ILI at these clinics was 2.6% compared to 2.1% for the previous week. This is the fifth consecutive week that the statewide ILI rate has been 2% or above (including data from previous weeks that were submitted after the respective reporting deadlines). Since the week ending February 11<sup>th</sup>, the rate of ILI has increased by 25%. The rates of ILI varied considerably by region. Reported ILI activity was highest in the northeast region of the state at 4%. Reported ILI activity in the northwest region, which has been above 2% since the beginning of 2010, decreased to 0.7% this week. Many sites did not submit ILI data by the reporting deadline; the regional and statewide percentages may rise or fall after these sites submit data. Nationally, the proportion of outpatient visits for influenza-like illness (ILI) was 1.7% for the week ending February 27<sup>th</sup>.

## **Hospital Admissions for Pneumonia or Influenza (EMSystems)**

For the week ending March 6<sup>th</sup>, 74 (56%) of 132 hospitals reported 265 patients admitted for pneumonia or influenza. Sixty-two (23%) of these admissions were among children less than 5 years of age. This is the seventh consecutive week in which greater than 20% of hospitalizations were among this age group. The statewide rate of hospital admissions per 100 bed-days decreased from 0.72 last week to 0.63 this week. The southwest and southeast regions reported an increase in the rate of hospital admissions per 100 bed-days, while the remaining regions reported a decrease.

The decrease observed among the number of hospital admissions for pneumonia or influenza this week may be a result of the fewer number of hospitals that reported their data this week by the reporting deadline.

# Executive Summary (continued)

## **Mortality Due to Pneumonia or Influenza**

Thirty-one (6%) of the 485 deaths reported to KDHE during the week ending February 27<sup>th</sup> were due to pneumonia or influenza. This is a decrease from the week ending February 20<sup>th</sup> when 10% of all deaths in Kansas were attributed to pneumonia or influenza. A majority of the deaths reported this week continued to occur in individuals aged 65 years and older; however, four deaths were in persons between the ages of 50-64 years.

## **Self-reported Influenza-like Illness**

No new data were available for this week's surveillance report.

## **School Absenteeism**

For the school week ending March 5<sup>th</sup>, 78 (74%) of the 105 Kansas counties reported school absenteeism data. The percentage of schools reporting 10% or greater absenteeism decreased slightly across all school levels statewide, from 8.7 to 6.2 for elementary schools, from 10.3 to 8.7 for middle schools, and 13.7 to 10.3 for high schools. Many counties did not submit their data by the reporting deadline; statewide and regional percentages may rise or fall after these non-reporting counties submit data. Additionally, these numbers represent total absenteeism from all causes, not only absenteeism due to influenza.

## **Laboratory-based Surveillance**

During the week ending March 6<sup>th</sup>, 36 specimens were tested at KDHE Laboratories (KHEL). Of these, 10 (28%) were positive for influenza A (2009 H1N1) and 1 (3%) was positive for influenza A (subtype unknown). The percentage of specimens positive for the pandemic strain represents a slight increase from the 8% that were positive last week; however, fewer total specimens were submitted this week. No influenza B viruses were detected.

Since October 4<sup>th</sup>, a total of 2,531 specimens have been submitted to KHEL for testing. Of these, 936 (37%) have tested positive for influenza A (2009 H1N1).

## **Population Vaccinated Against 2009 H1N1 Influenza A Virus**

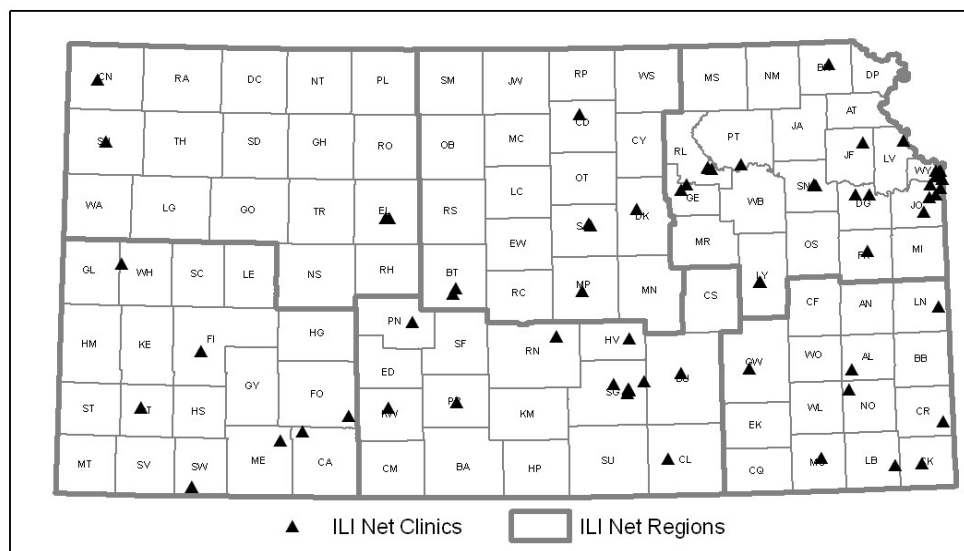
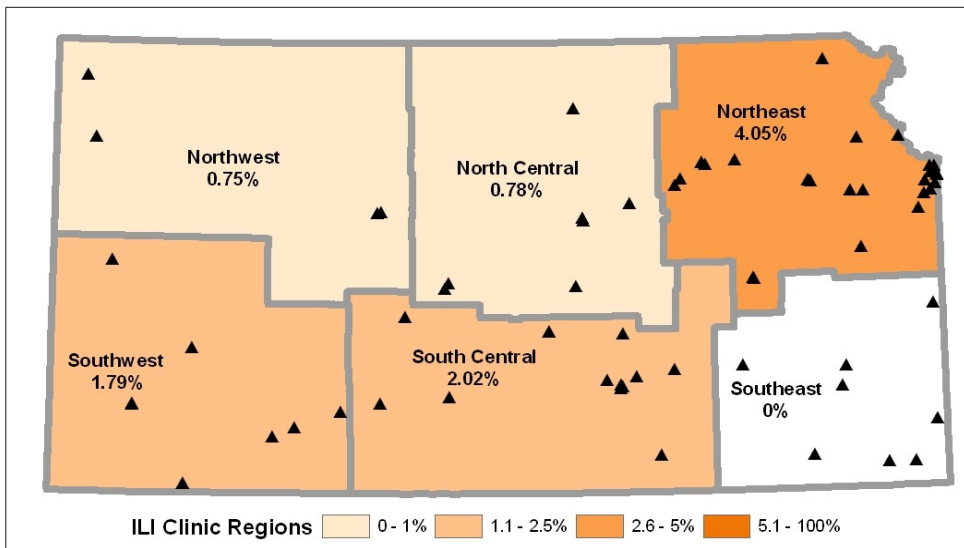
As of March 6<sup>th</sup>, 575,227 doses of 2009 H1N1 vaccine were reported to have been administered to Kansans, which comprises 20% of the state's population. The charts show the cumulative number of Individuals vaccinated at the end of each week by region as well as the cumulative percentage of each region's population that has been immunized. The proportion of persons vaccinated ranged from 16% in the southeast region to 25% in the northwest region.

It is important to note that numbers of people vaccinated are reported by the county in which they received the vaccination; therefore, cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination. These charts do not account for individuals who were vaccinated in a region other than the region in which they reside. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 6, 2010



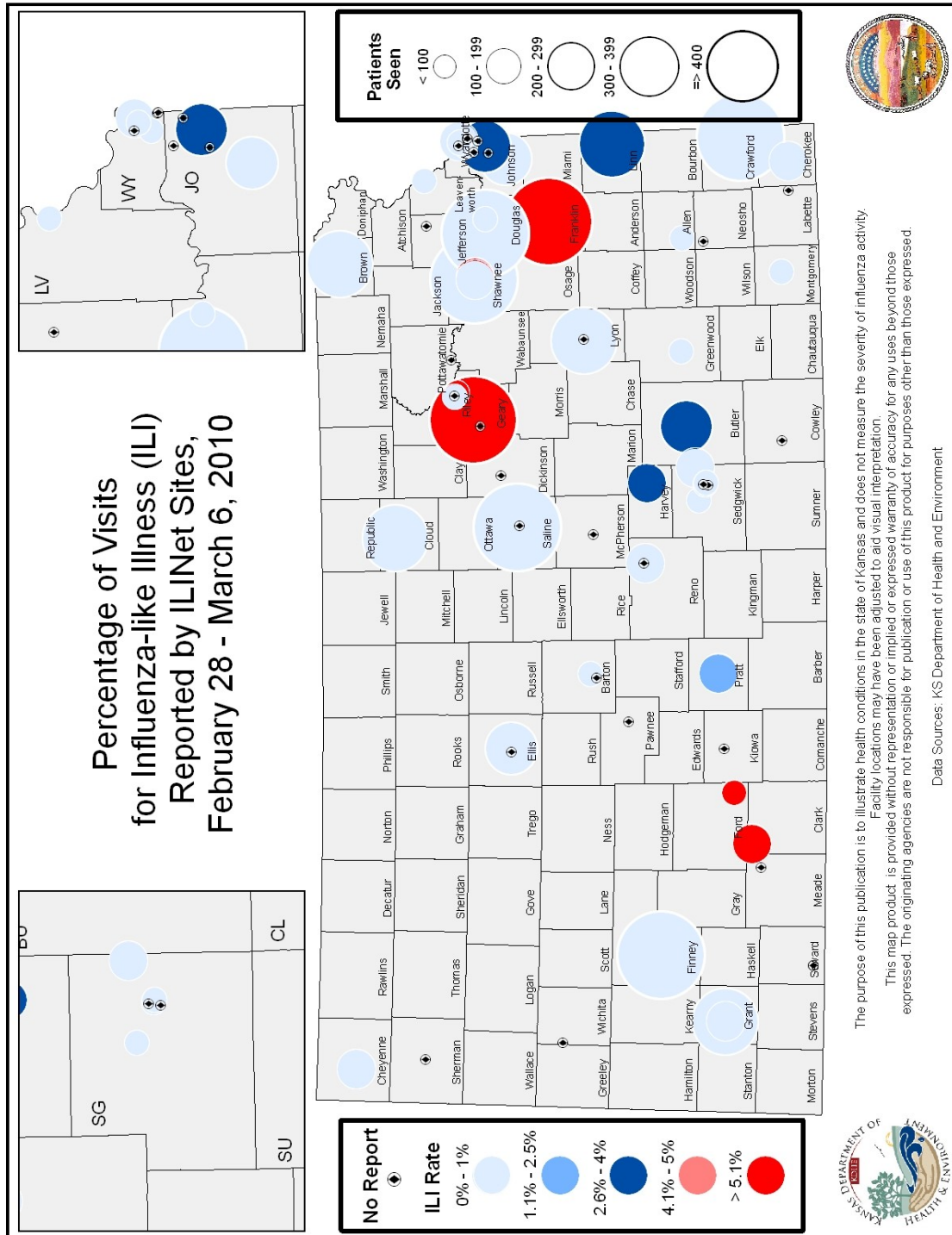
Percentage of Visits  
for Influenza-like Illness (ILI)  
Reported by ILINet Sites, by Region  
February 28, 2010 - March 6, 2010



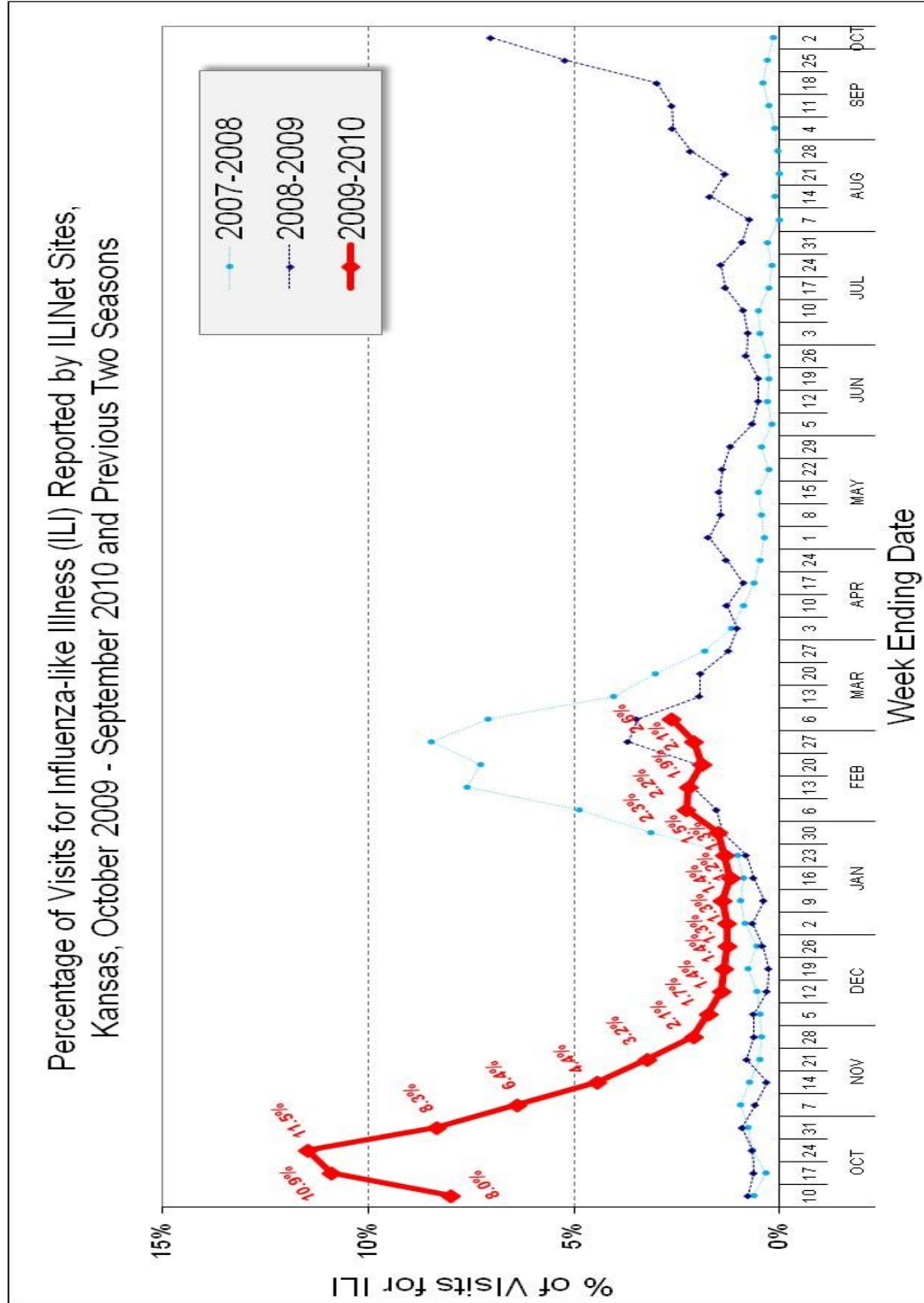
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Data Sources: KS Department of Health and Environment

# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 6, 2010



# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 6, 2010



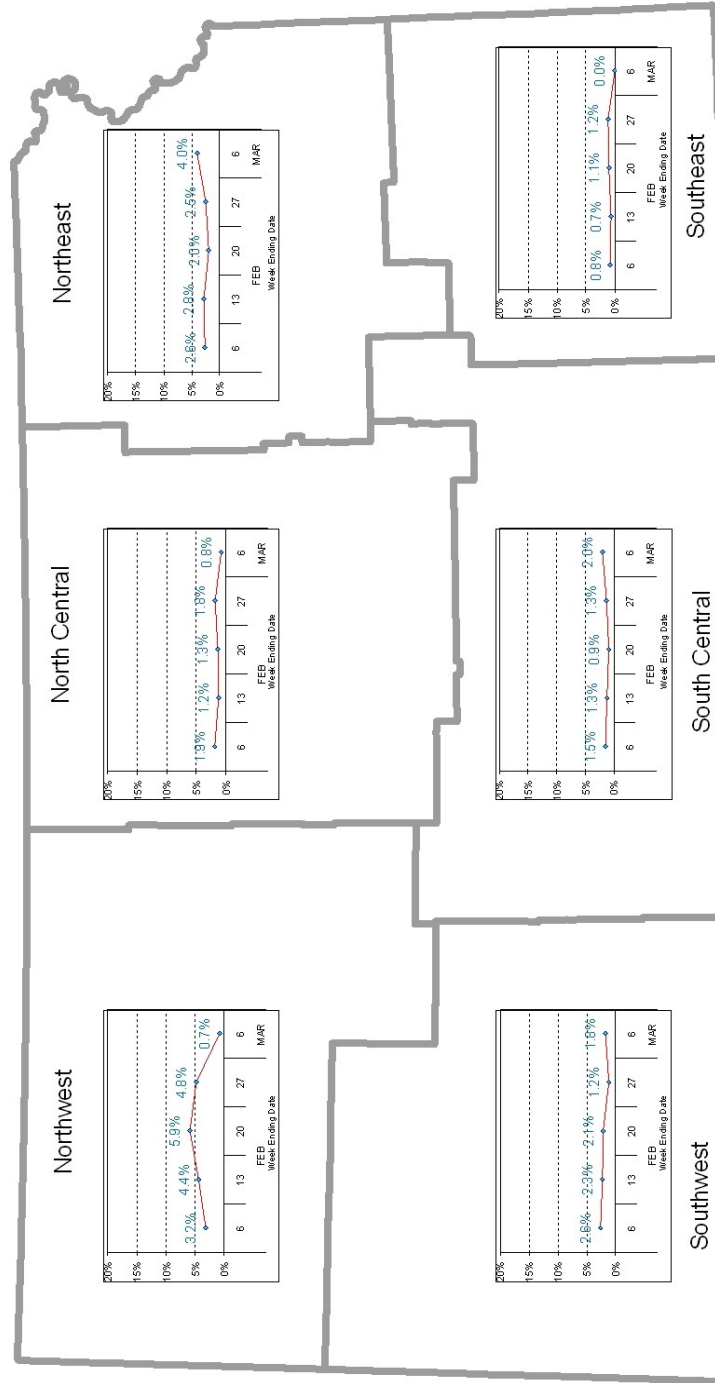
The X-axis represents the week ending dates for the 2009-2010 surveillance year. Data from the previous two surveillance years are plotted according to week number corresponding to the 2009-2010 week ending date. Week 40 of 2009 ended October 10, 2009. Week 40 of 2008 ended October 4, 2008, and week 40 of 2007 ended October 6, 2007, and so on. Week 53 was unique to the 2008-2009 season; data for that week has been excluded from the chart. ILINet sites vary in location, number, and type (student health, family practice, etc.) each season as new sites are enrolled and former sites are deactivated.



# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 6, 2010



Percentage of Visits  
for Influenza-like Illness (ILI)  
Reported by ILINet Sites, by Region and Week  
as Reported on March 6, 2010



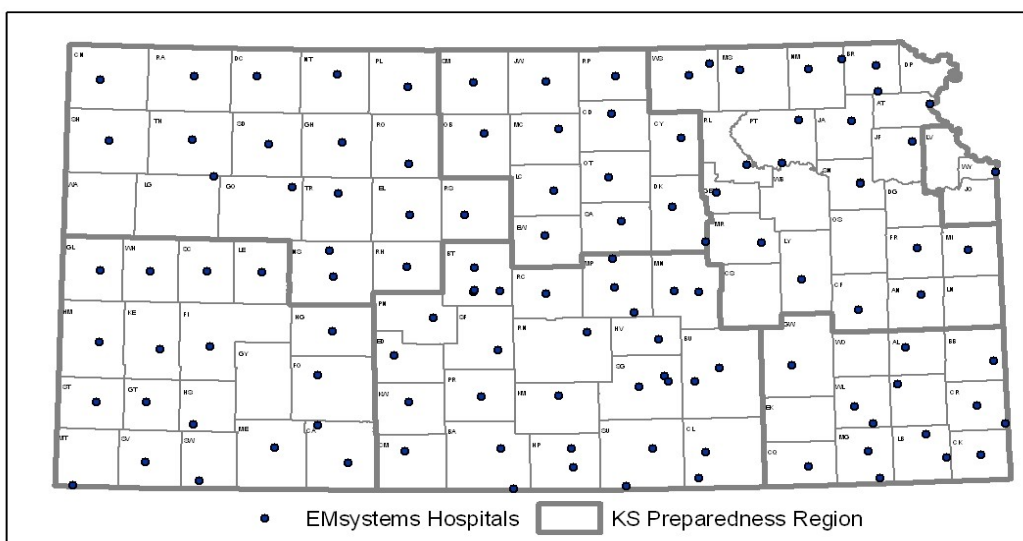
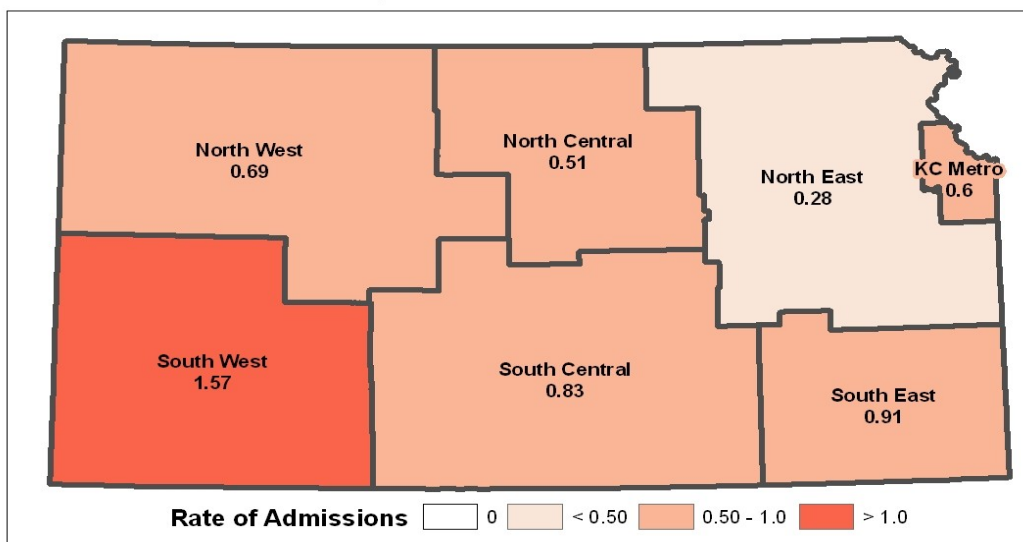
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# Hospital Admissions (Surveillance Conducted via EMSys)ems) Week ending March 6, 2010



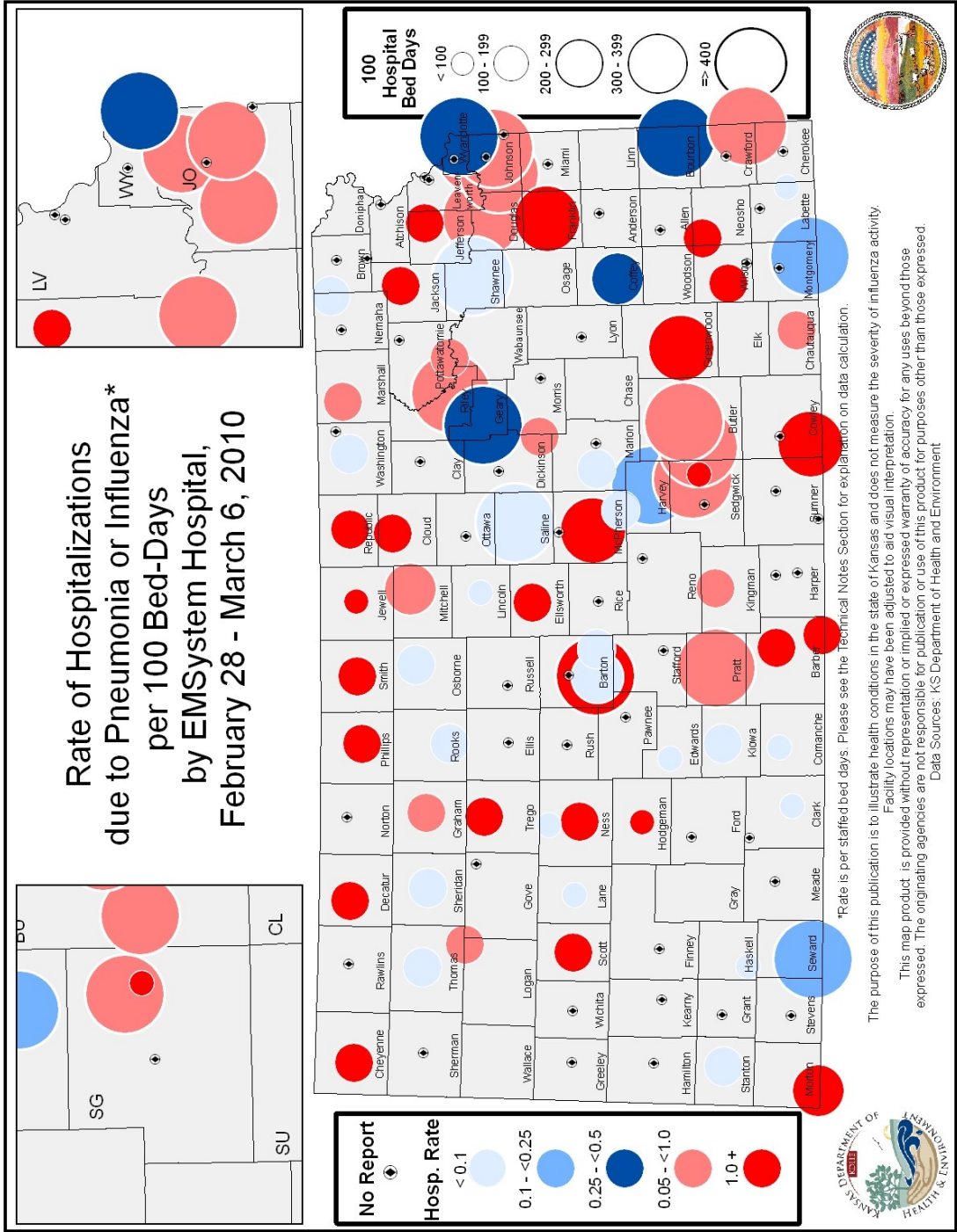
Rate of Hospitalizations  
due to Pneumonia or Influenza  
per 100 Bed-Days\*  
by Preparedness Region,  
February 28, 2010 - March 6, 2010



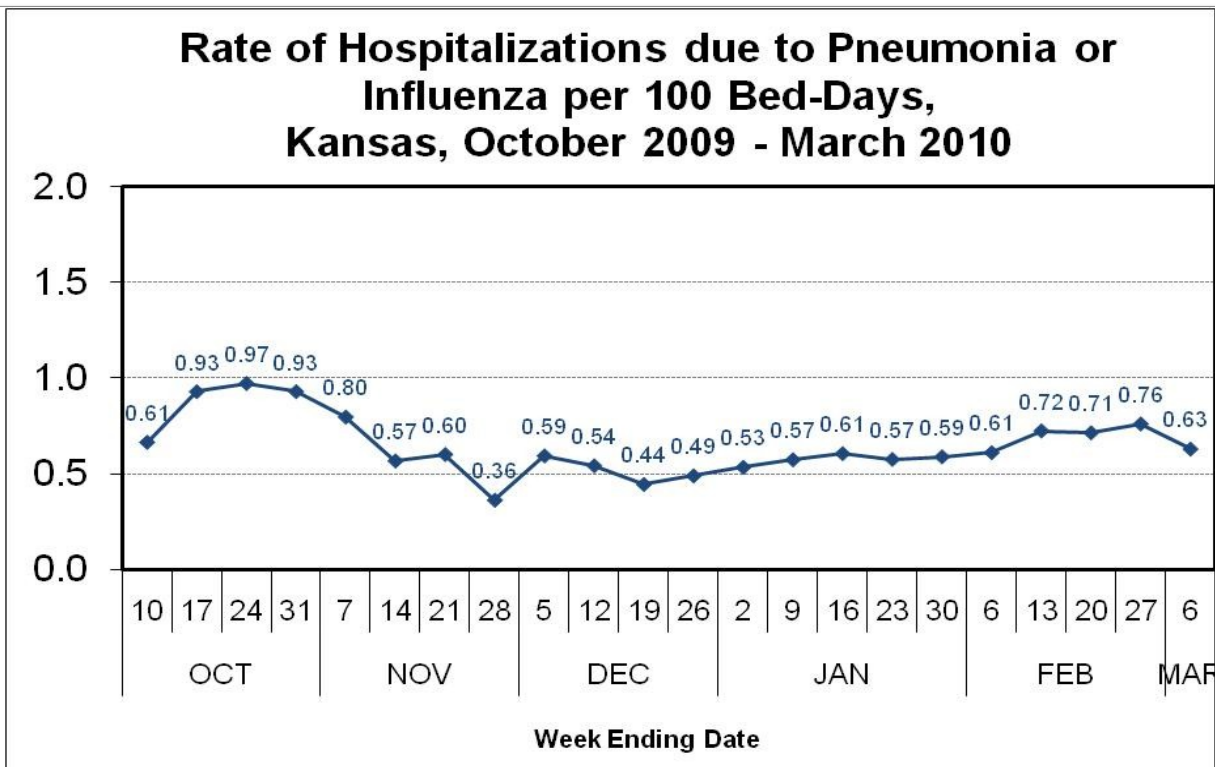
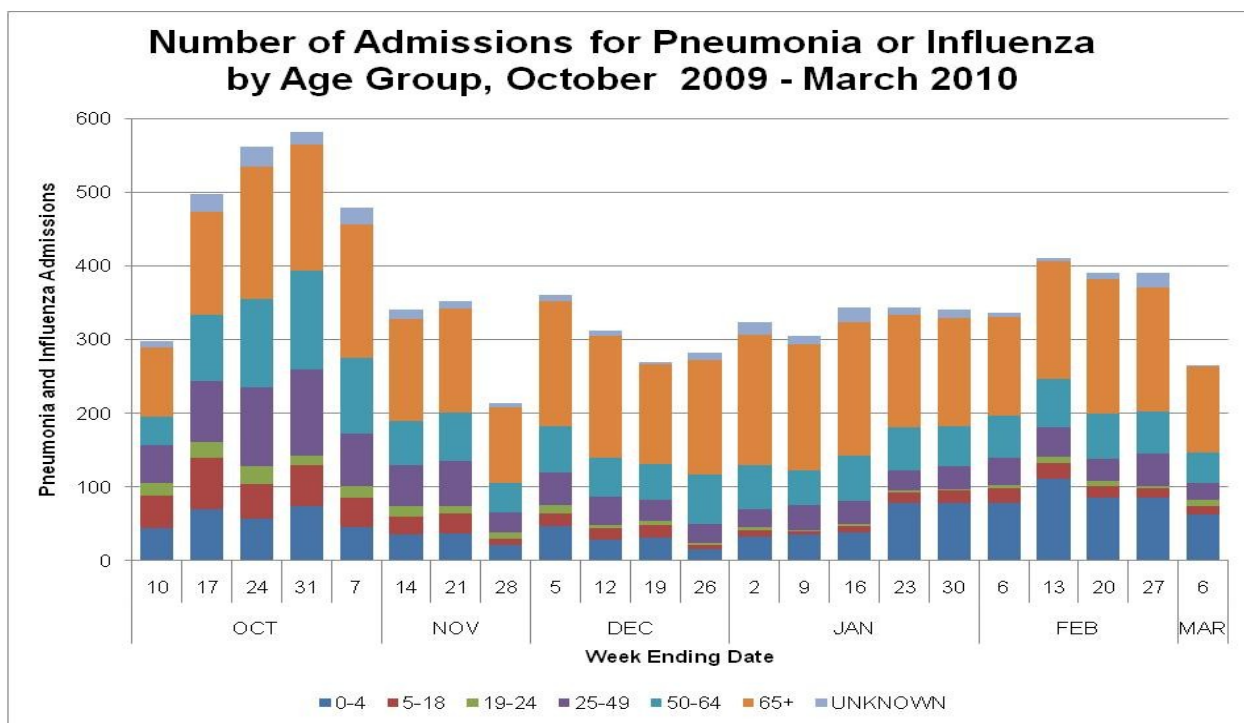
\*Rate is per staffed bed days. Please see the Technical Notes Section for explanation on data calculation.

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**Hospital Admissions  
(Surveillance Conducted via EMSys)  
Week ending March 6, 2010**



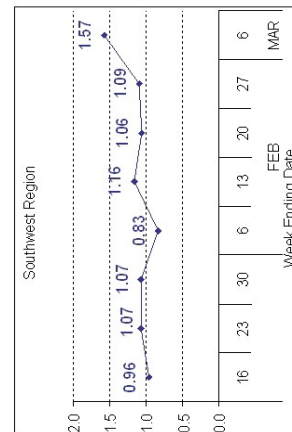
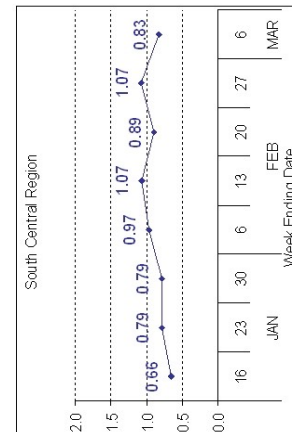
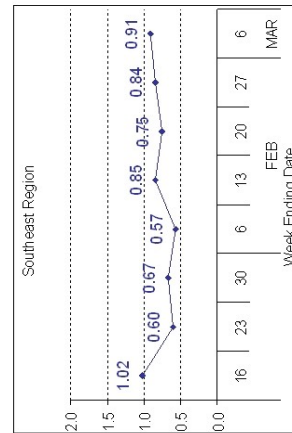
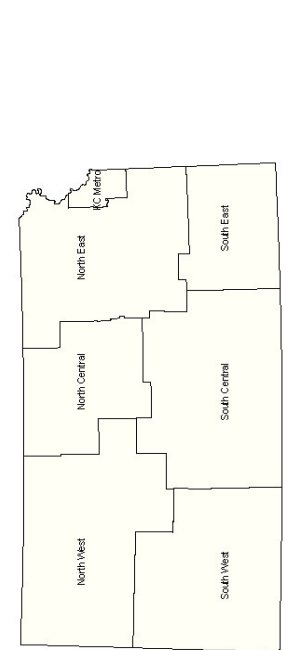
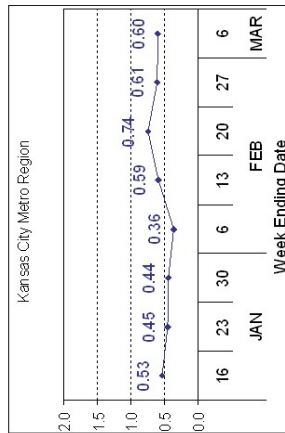
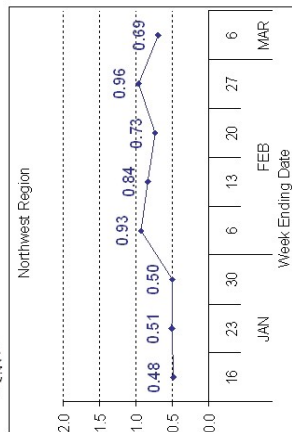
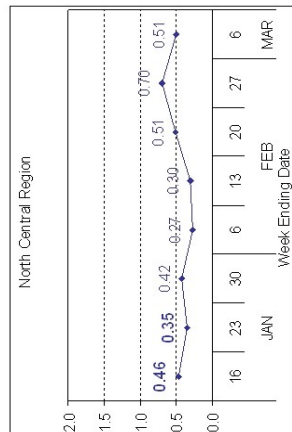
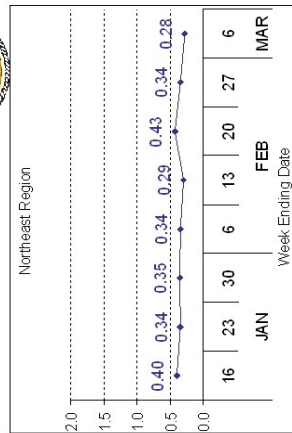
# Hospital Admissions (Surveillance Conducted via EMSystems) Week ending March 6, 2010



# Hospital Admissions (Surveillance Conducted via EMSystems) Week ending March 6, 2010



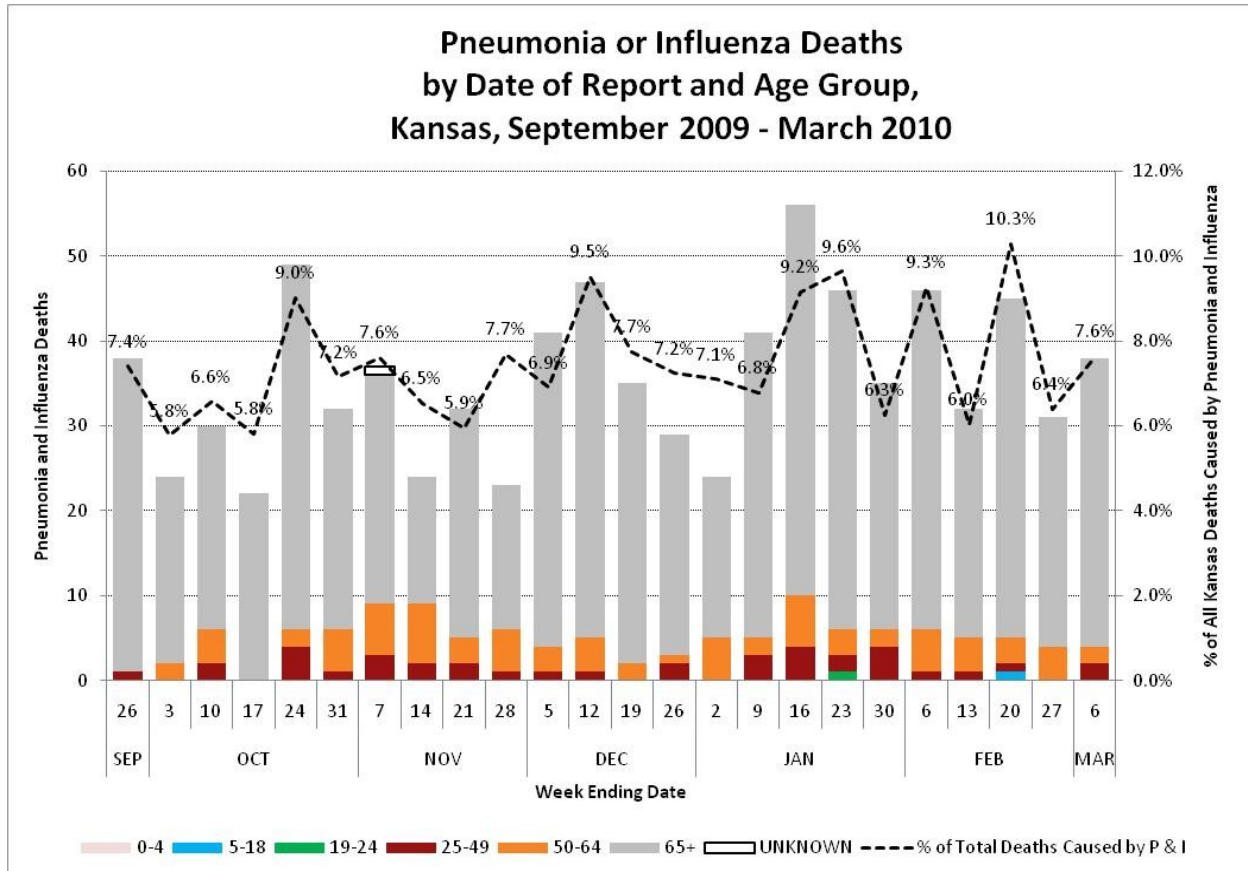
## Rate of Hospitalizations due to Pneumonia or Influenza per 100 Bed-Days by Preparedness Region as Reported on March 6, 2010



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## Mortality Due to Pneumonia or Influenza (Surveillance Conducted via KDHE Vital Statistics)

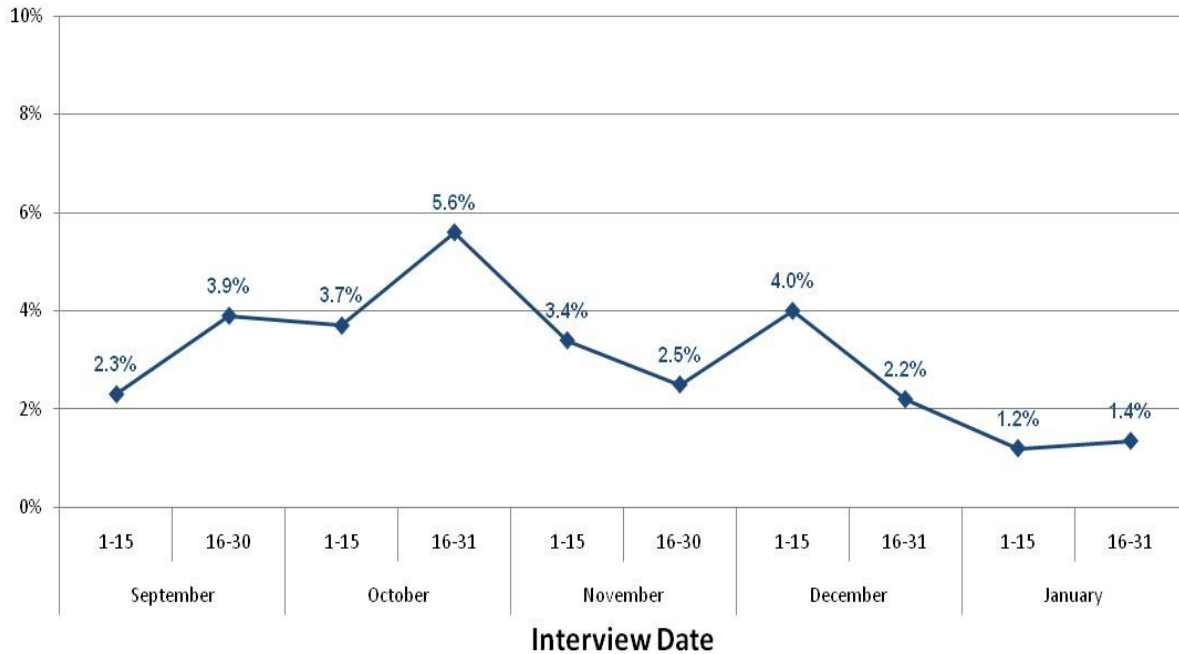


### Cumulative Number of Pneumonia or Influenza Deaths Reported by Age Group, September 26, 2009—March 6, 2010

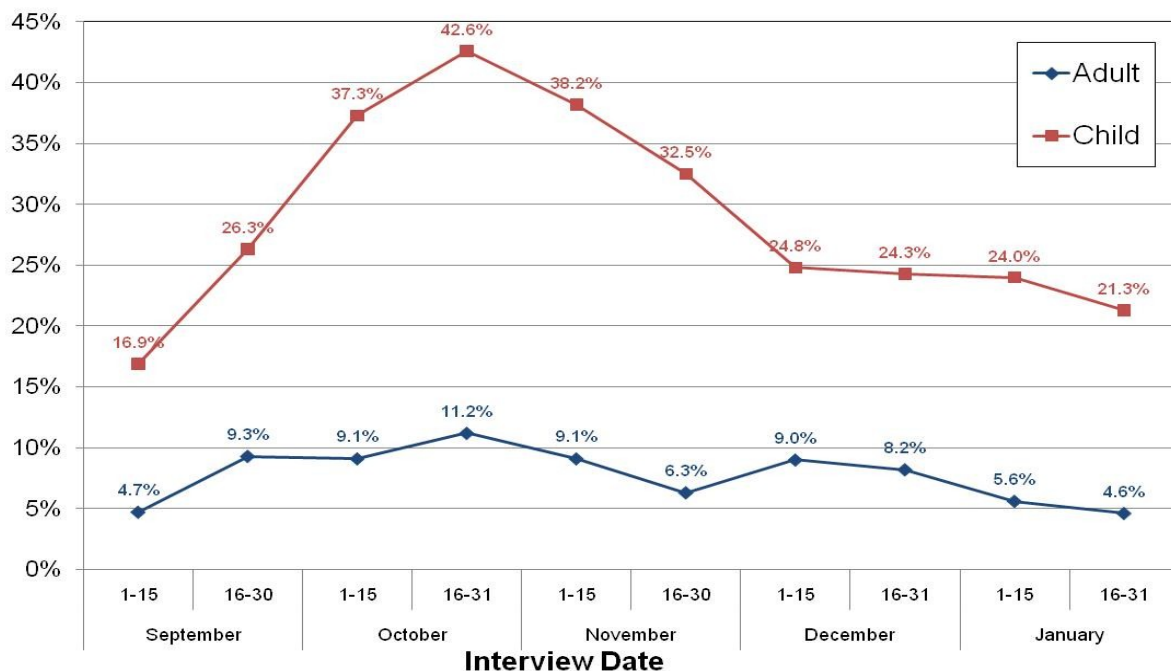
0-4	5-18	19-24	25-49	50-64	65+	Unknown	Total
0	1	1	38	80	736	1	857

# Self-Reported Influenza-like Illness (Surveillance Conducted via KDHE BRFSS)

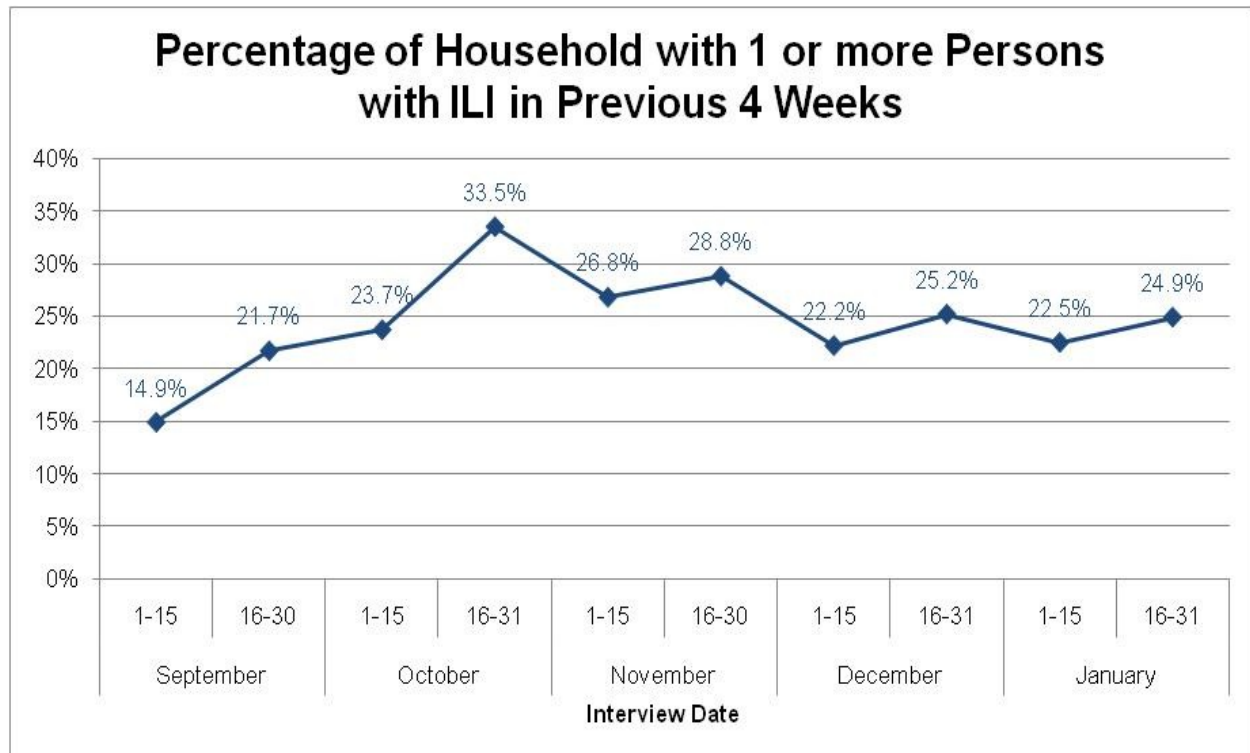
## Percentage of Adults Who Reported ILI in Previous 2 Weeks



## Percentage of Adults and Children Who Reported ILI in Previous 4 Weeks



## Self-Reported Influenza-like Illness (Surveillance Conducted via BRFSS)





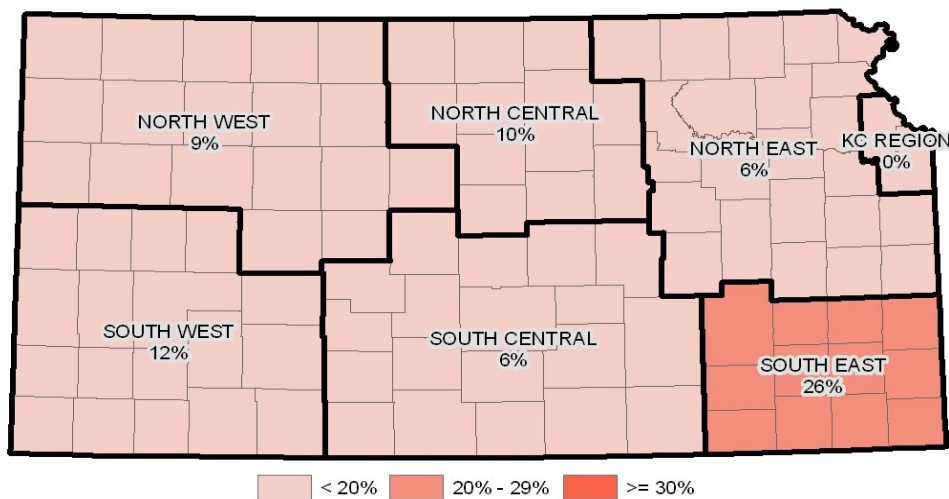
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 5, 2010



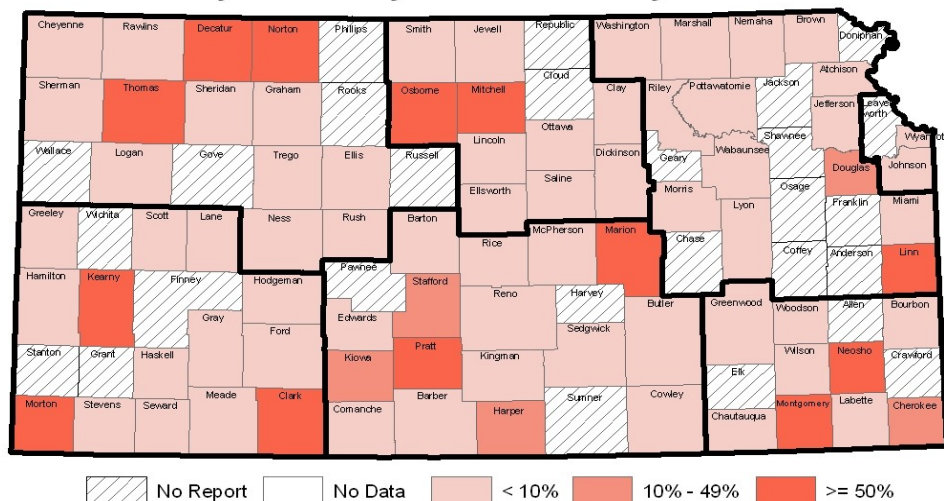
Percentage of Schools Reporting  
10% or Greater Absenteeism  
March 1 - March 5, 2010



## Preparedness Region Summary for Elementary Schools



## County Summary for Elementary Schools



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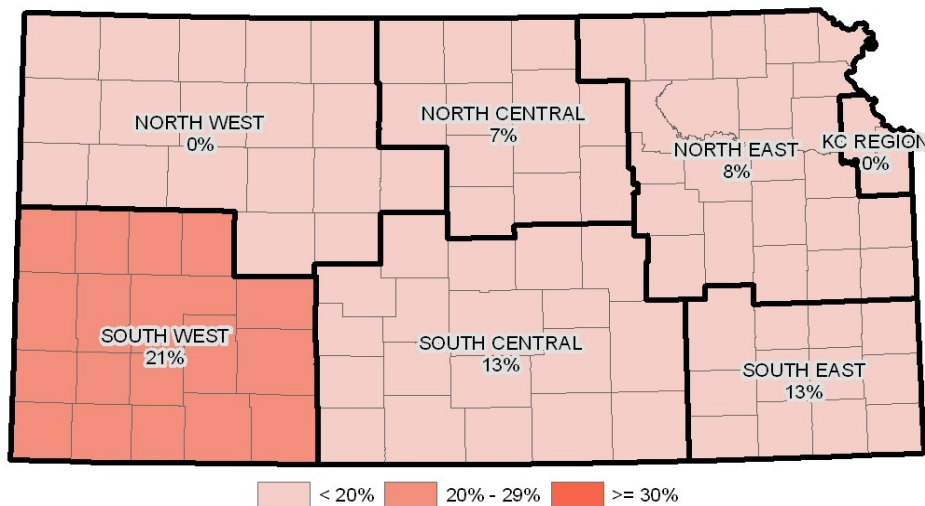
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 5, 2010



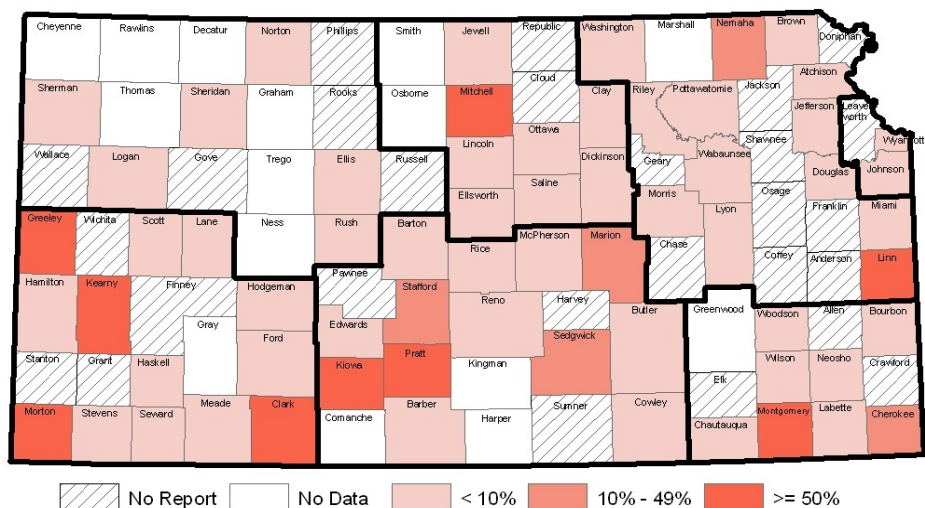
Percentage of Schools Reporting  
10% or Greater Absenteeism  
March 1 - March 5, 2010



## Preparedness Region Summary for Middle Schools



## County Summary for Middle Schools



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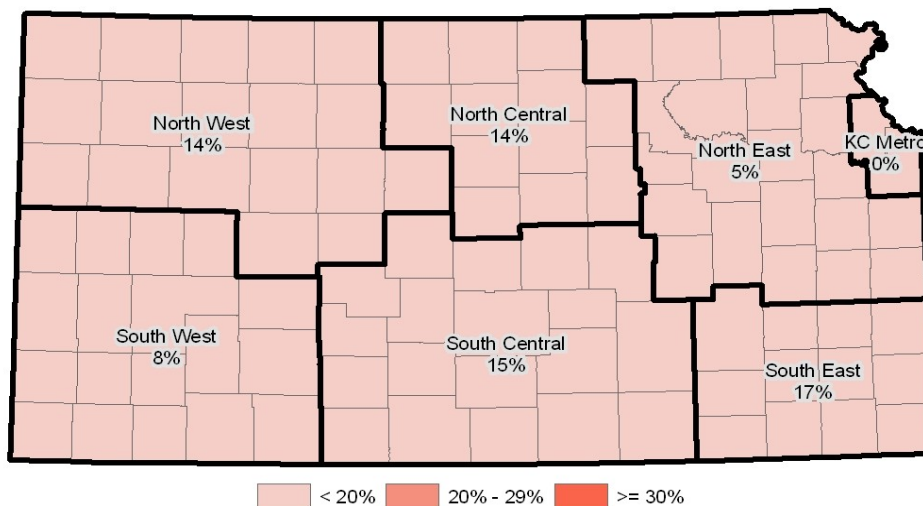
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 5, 2010



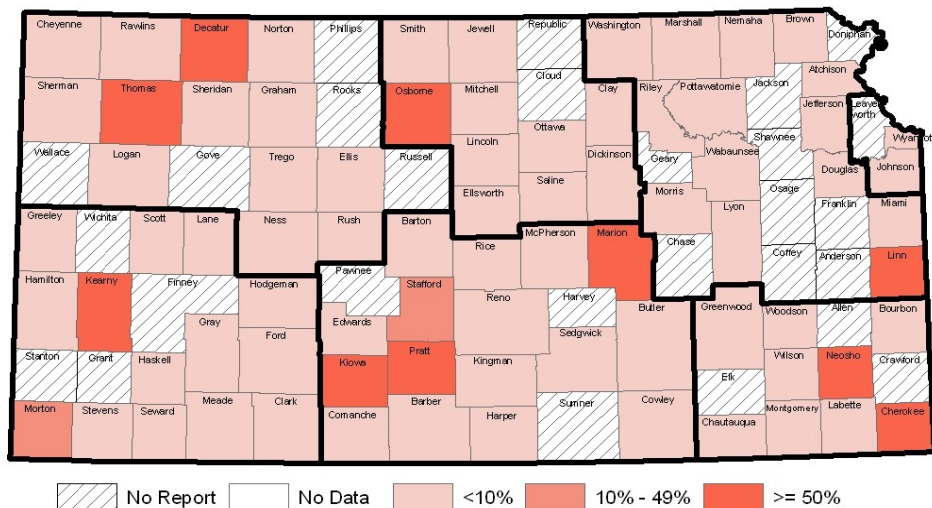
Percentage of Schools Reporting  
10% or Greater Absenteeism  
March 1 - March 5, 2010



## Preparedness Region Summary for High Schools

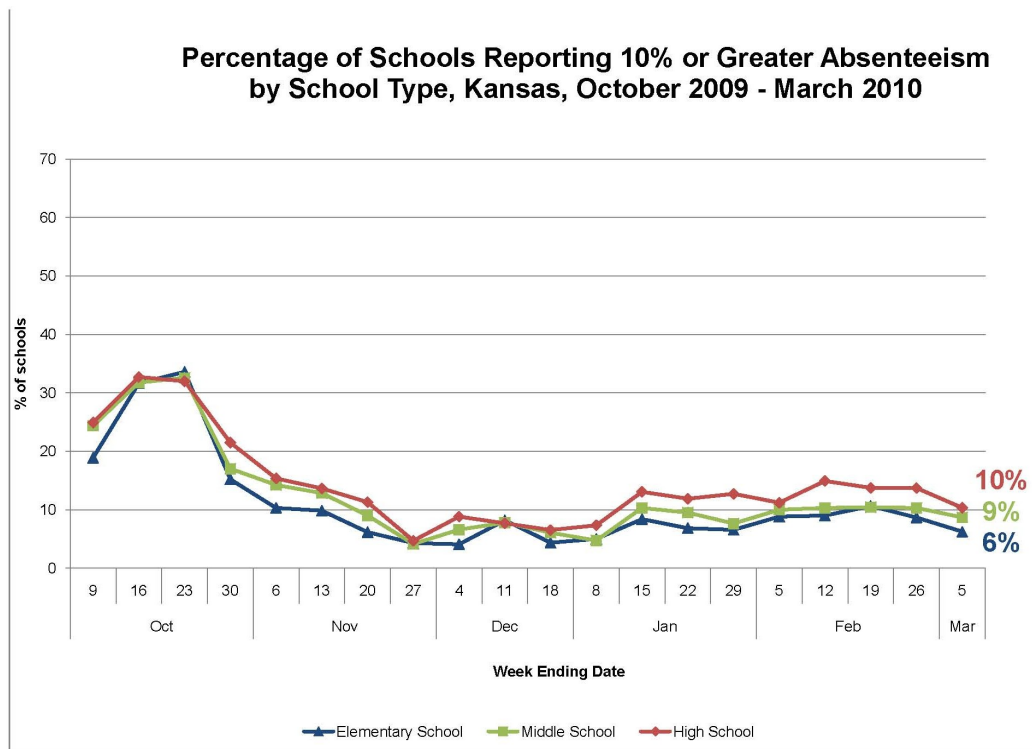


## County Summary for High Schools



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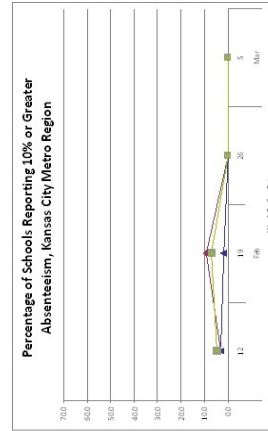
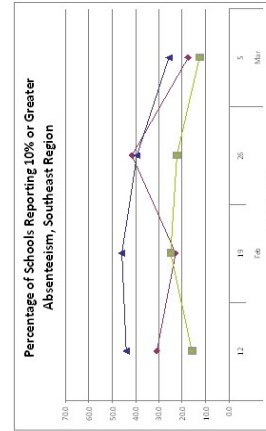
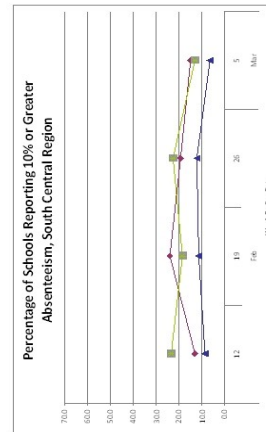
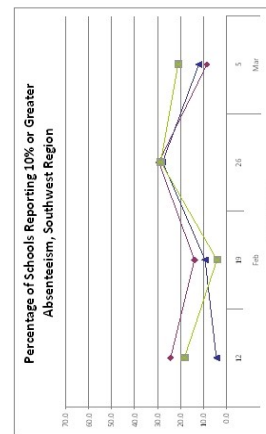
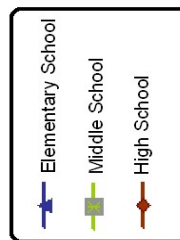
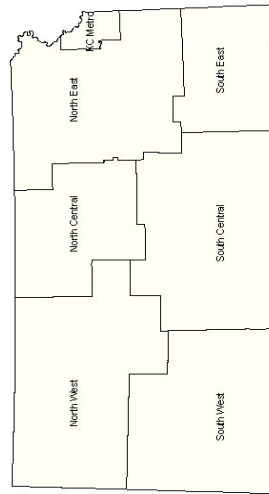
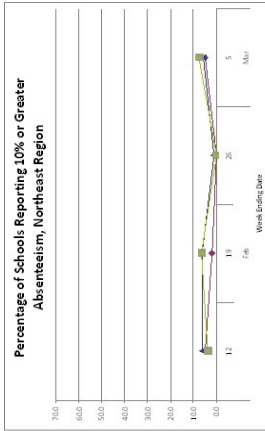
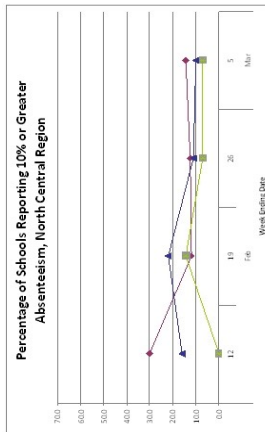
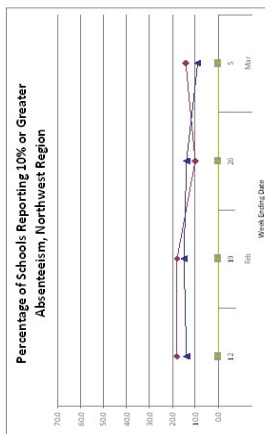
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 5, 2010\*



\*No data reported for the week ending December 25, 2009 and January 1, 2010 due to Winter Break.



## Percentage of Schools Reporting 10% or Greater Absenteeism by Preparedness Region as Reported on March 5, 2010



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# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 5, 2010\*



# Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending March 5, 2010

County	Elementary School	Middle School	High School
ALLEN			
ANDERSON			
ATCHISON	0%	0%	0%
BARBER	0%	0%	0%
BARTON	0%	0%	0%
BOURBON	0%	0%	0%
BROWN	0%	0%	0%
BUTLER	0%	0%	8%
CHASE			
CHAUTAUQUA	0%	0%	0%
CHEROKEE	40%	33%	50%
CHEYENNE	0%		0%
CLARK	100%	100%	0%
CLAY	0%	0%	0%
CLOUD			
COFFEY			
COMANCHE	0%		0%
COWLEY	0%	0%	0%
CRAWFORD			
DECATUR	100%		100%
DICKINSON	0%	0%	0%
DONIPHAN			
DOUGLAS	11%	0%	0%
EDWARDS	0%	0%	0%
ELK			
ELLIS	0%	0%	0%
ELLSWORTH	0%	0%	0%
FINNEY			
FORD	0%	0%	0%
FRANKLIN			
GEARY			
GOVE			
GRAHAM	0%		0%
GRANT			
GRAY	0%		0%

County	Elementary School	Middle School	High School
GREELEY	0%	100%	0%
GREENWOOD	0%		0%
HAMILTON	0%	0%	0%
HARPER	25%		0%
HARVEY			
HASKELL	0%	0%	0%
HODGEMAN	0%	0%	0%
JACKSON			
JEFFERSON	0%	0%	0%
JEWELL	0%	0%	0%
JOHNSON	0%	0%	0%
KEARNY	67%	50%	50%
KINGMAN	0%		0%
KIOWA	33%	100%	100%
LABETTE	0%	0%	0%
LANE	0%	0%	0%
LEAVENWORTH			
LINCOLN	0%	0%	0%
LINN	80%	100%	100%
LOGAN	0%	0%	0%
LYON	0%	0%	0%
MARION	60%	40%	60%
MARSHALL	0%		0%
MCPHERSON	0%	0%	0%
MEADE	0%	0%	0%
MIAMI	0%	0%	0%
MITCHELL	100%	100%	0%
MONTGOMERY	67%	50%	0%
MORRIS	0%	0%	0%
MORTON	100%	50%	33%
NEMAHA	0%	17%	0%
NEOSHO	50%	0%	50%
NESS	0%		0%
NORTON	50%	0%	0%
OSAGE			

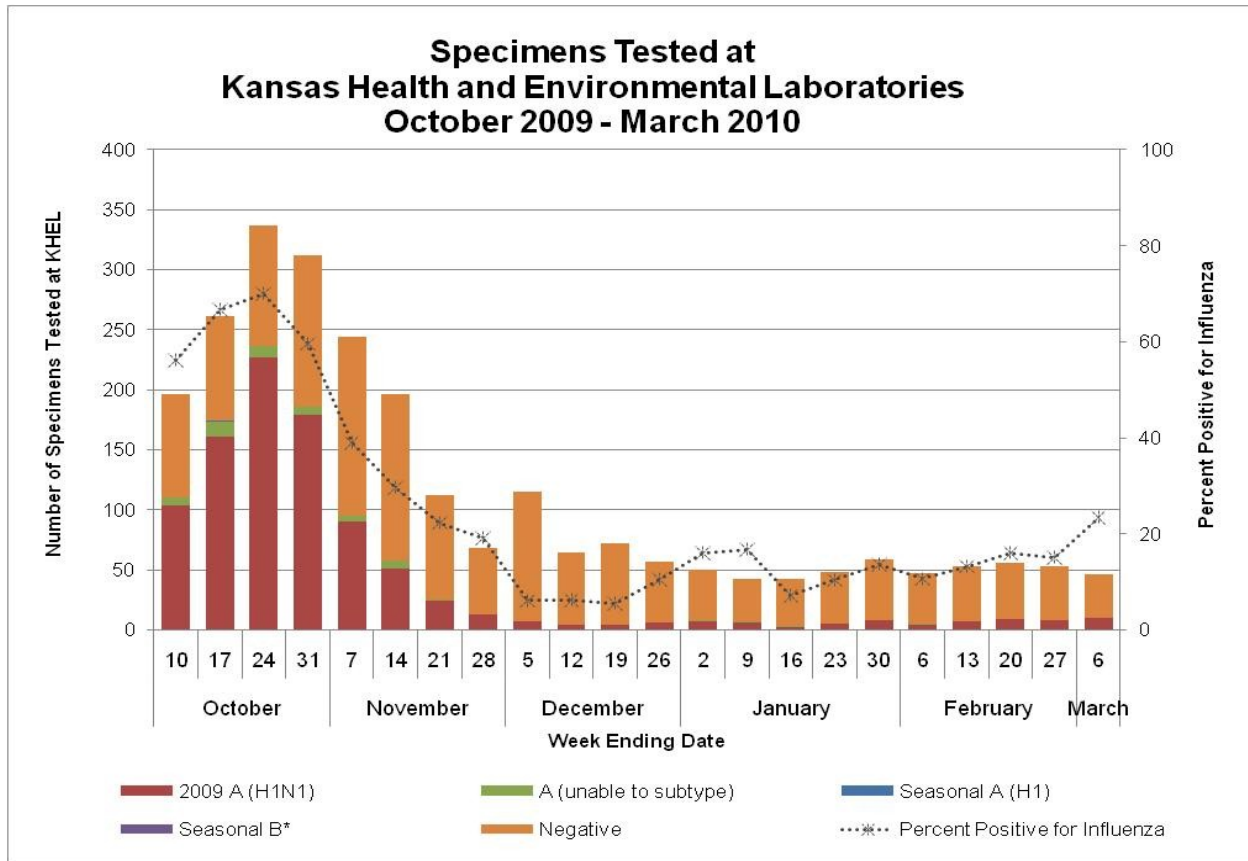
# Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending March 5, 2010

County	Elementary School	Middle School	High School
OSBORNE	50%		100%
OTTAWA	0%	0%	0%
PAWNEE			
PHILLIPS			
POTTAWATOMIE	0%	0%	0%
PRATT	50%	50%	50%
RAWLINS	0%		0%
RENO	0%	0%	0%
REPUBLIC			
RICE	0%	0%	0%
RILEY	0%	0%	0%
ROOKS			
RUSH	0%	0%	0%
RUSSELL			
SALINE	0%	0%	0%
SCOTT	0%	0%	0%
SEDGWICK	2%	13%	0%
SEWARD	0%	0%	0%
SHAWNEE			
SHERIDAN	0%	0%	0%
SHERMAN	0%	0%	0%
SMITH	0%		0%
STAFFORD	33%	33%	33%
STANTON			
STEVENS	0%	0%	0%
SUMNER			
THOMAS	50%		67%
TREGO	0%		0%
WABAUNSEE	0%	0%	0%
WALLACE			
WASHINGTON	0%	0%	0%
WICHITA			
WILSON	0%	0%	0%
WOODSON	0%	0%	0%
WYANDOTTE	0%	0%	0%



No report or no data available

# Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)



## Kansas Department of Health and Environmental Laboratories October 4, 2009 — March 6, 2010

No. of specimens submitted for testing at KHEL	2,531
No. of specimens testing positive for influenza A (2009 H1N1)	936 (37%)

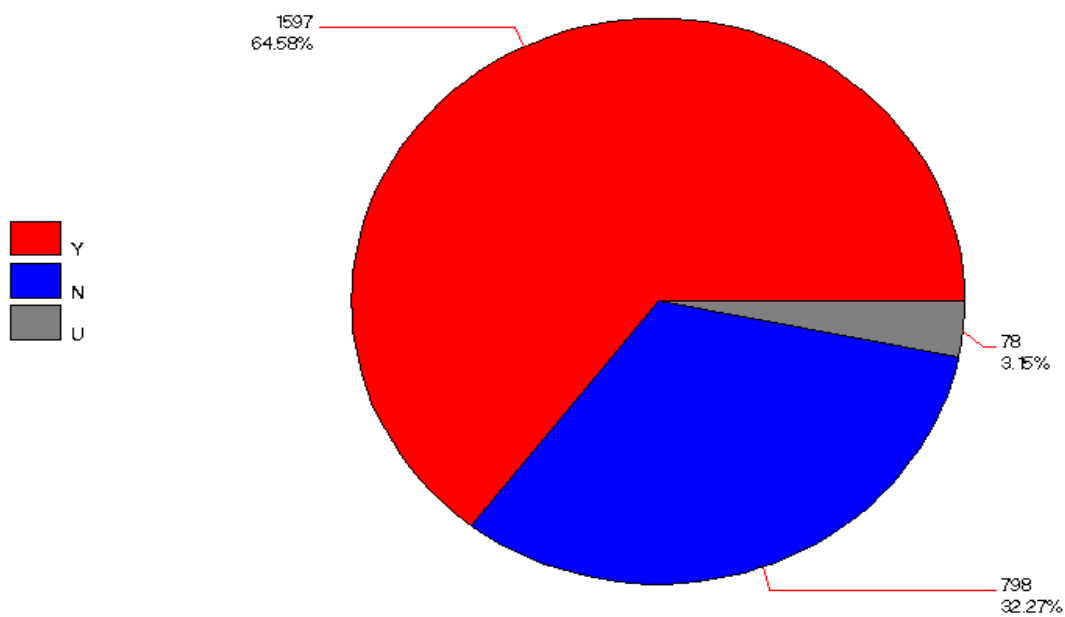


# Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)

## Influenza Specimens Tested at KHEL by Hospitalization Status

October 4, 2009 — March 6, 2010

FREQUENCY of Hospitalized



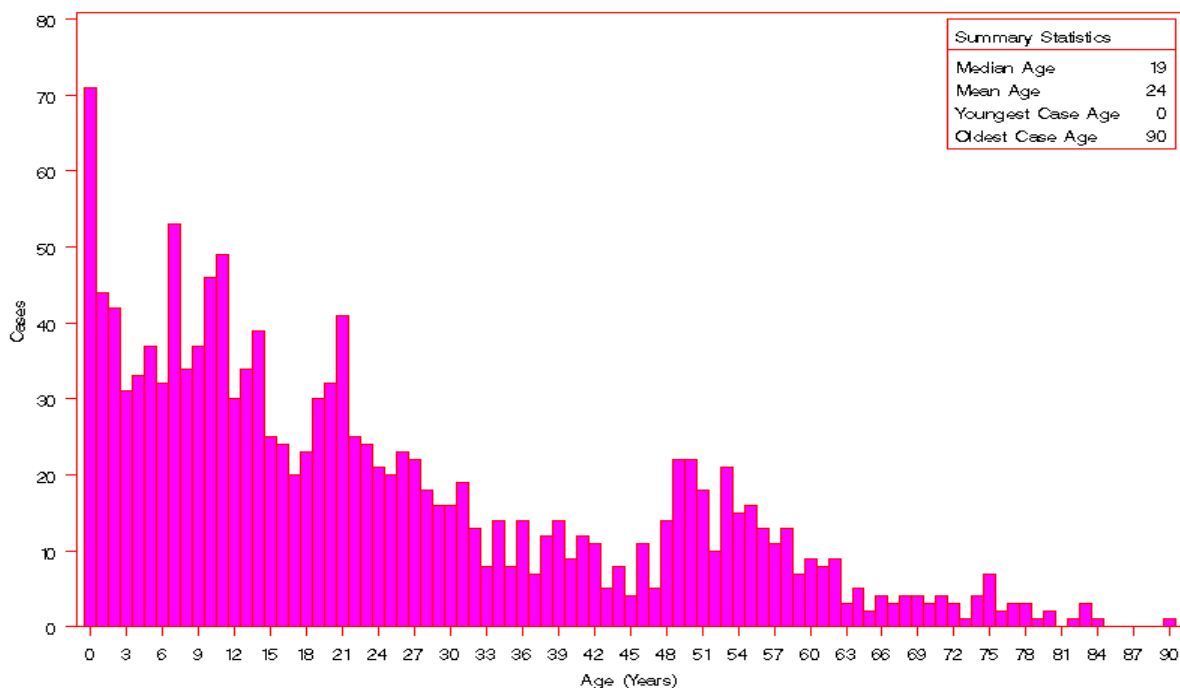


# Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases

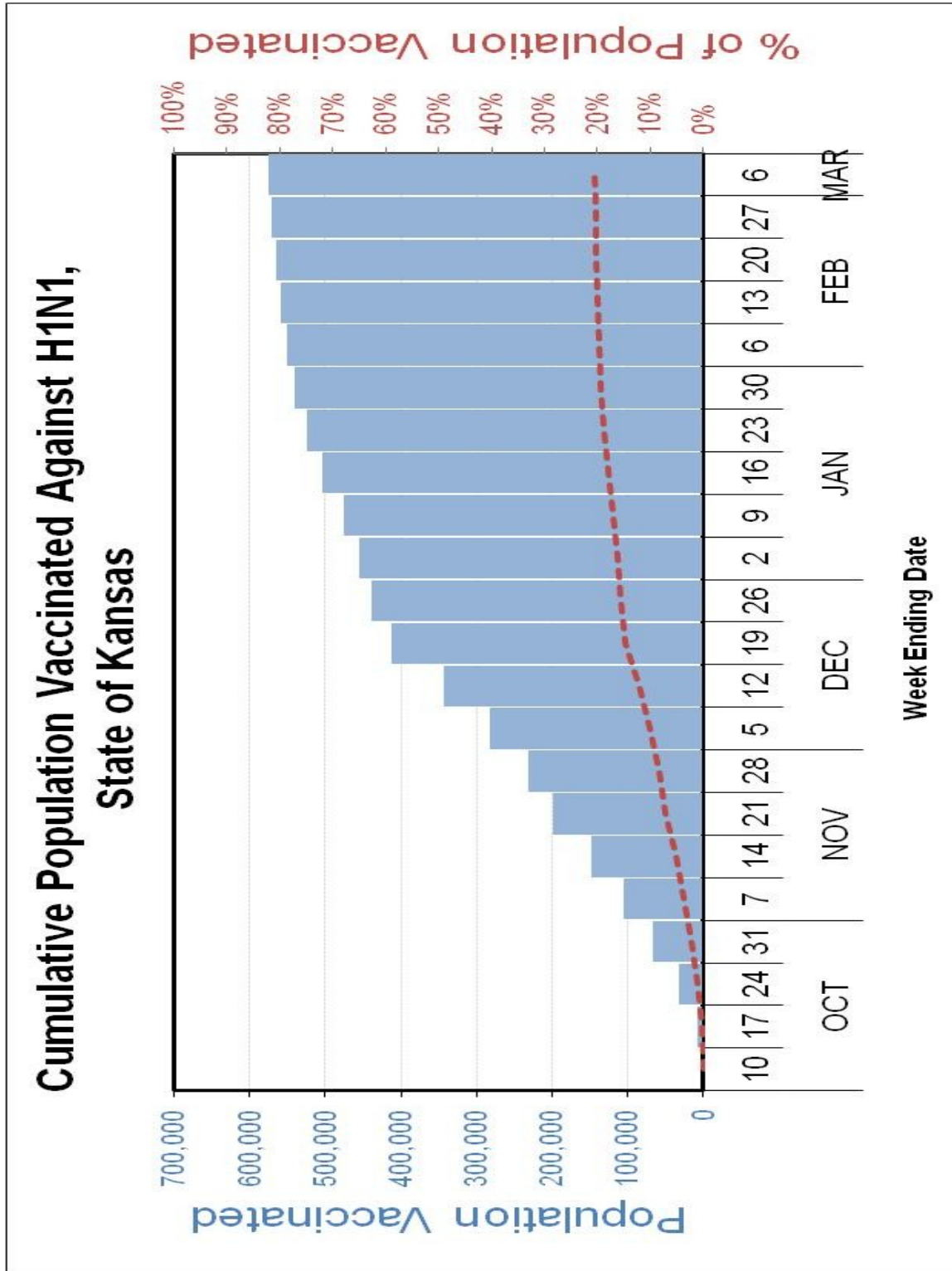
## Patient Characteristics for Laboratory-Confirmed H1N1 Cases (N = 1439)

<b>Median Age (Years)</b>	19	
<b>Age Range (Years)</b>	<1 to 90	
<b>Age Groups</b>	<b>Percent (%) of cases</b>	<b>Rate per 100,000 population</b>
<5 Years	15	109
5 to 24 Years	46	82
25 to 49 Years	23	34
50 to 64 Years	12	35
65+ Years	4	15
<b>Male</b>	46	47
<b>Female</b>	54	55
<b>Hispanic or Latino</b>	17	97
<b>Races</b>		
White	73	42
Black	8	58
Asian/Pacific Islander	3	56
American Indian/Alaska Native	<1	18
Mixed Race	2	(unknown)
<b>Hospitalized</b>	49	
<b>Died</b>	2	

## Age Distribution of Laboratory Confirmed Cases as of March 6, 2010



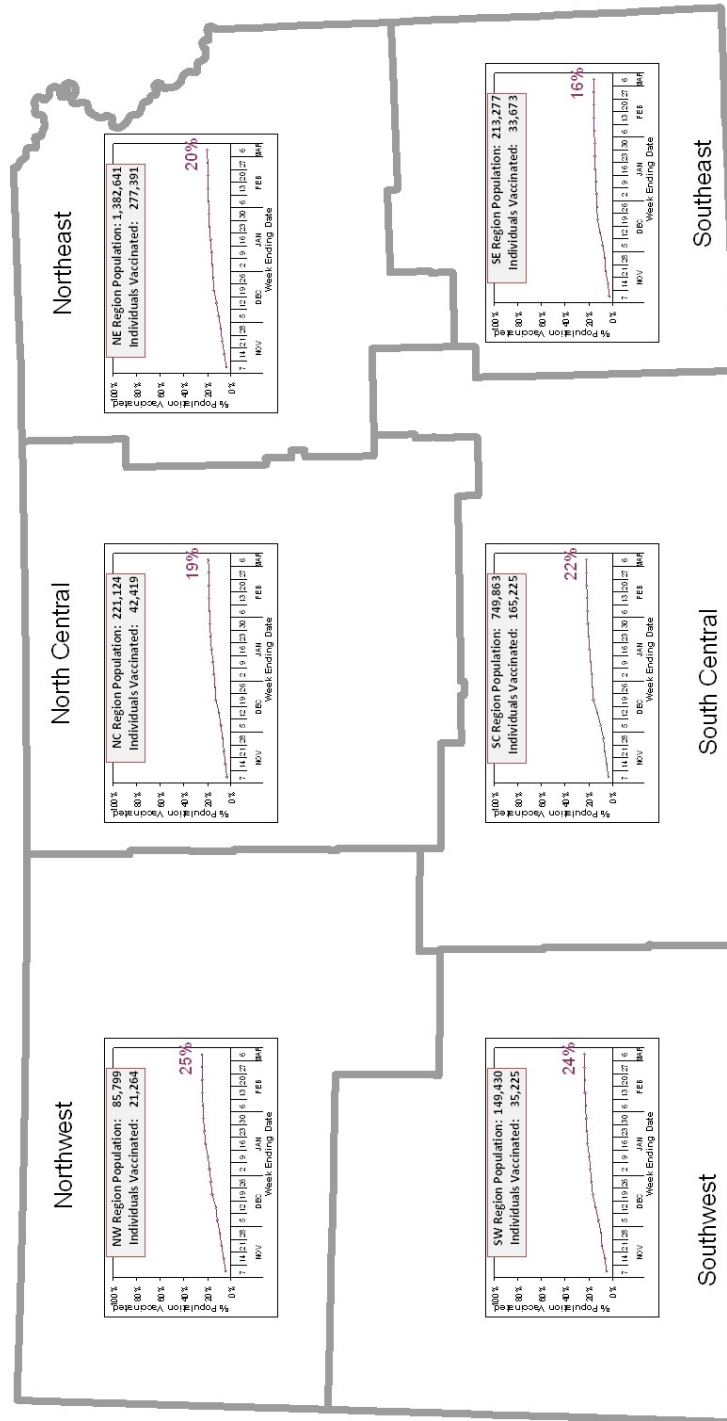
# Population Vaccinated Against 2009 H1N1 Influenza A Virus



# Population Vaccinated Against 2009 H1N1 Influenza A Virus



Cumulative Population  
Vaccinated Against H1N1,  
by Region and Week  
as Reported on March 6, 2010



The purpose of this publication is to illustrate health conditions in the state of Kansas and does not measure the severity of influenza activity.  
This map product is provided without representation or implied or expressed warranty of accuracy for any uses beyond those expressed. The originating agencies are not responsible for publication or use of this product for purposes other than those expressed.  
Data Sources: KS Department of Health and Environment

# Technical Notes

## **Outpatient Influenza-like Illness Surveillance (ILINet)**

Information on patient visits to health care providers for influenza-like illness is collected through the US Outpatient Influenza-like Illness Surveillance Network (ILINet). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a KNOWN cause other than influenza.

ILINet clinics in Kansas report the number of patients seen with influenza-like illness each week. The information reflects data collected for the week ending the previous Saturday. As of January 2, 2010, seventy sites are enrolled in ILINet in Kansas. The maps and charts on pages 6-9 show the percentage of ILI visits reported by region and by site by week ending date. Each percentage was calculated by dividing the number of patients seen with ILI at the clinic by the total number of patients seen and multiplying by 100.

Influenza-like illness data are collected from Sunday through Saturday of each week. Each participating clinic is requested to summarize the data weekly and submit the data by noon on Tuesday of the following week. The information on these charts may change each week because of data that may have been submitted after the reporting deadline.

## **Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems)**

Hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EMSystems, a secure, online reporting system. One hundred and thirty-one (131) hospitals that have access to EMSystems are included in this surveillance program. KDHE has partnered with KHA to collect aggregate information on patients hospitalized for pneumonia or influenza.

The maps and graphs on pages 10-13 show the rate of hospital admissions for pneumonia or influenza reported by region and by hospital by week ending date. Each rate was calculated by dividing the number of patients admitted to the hospital with pneumonia or influenza by bed days. The denominator bed days was calculated by multiplying the number of staffed beds by seven.

## **Mortality Due to Pneumonia or Influenza**

The Office of Vital Statistics within the Bureau of Public Health Informatics at KDHE receives and preserves vital records for events (births, deaths, marriages, and divorces) which occur in Kansas. The mortality data on page 14 reflects the number and percentage of persons whose primary or underlying cause of death was attributed to pneumonia and / or influenza.

## **Self-Reported Influenza-like Illness**

The Behavioral Risk Factor Surveillance System (BRFSS), which is coordinated and partially funded by the Centers for Disease Control and Prevention, is the largest continuously conducted telephone survey in the world. It is conducted in every state, the District of Columbia, and several United States territories. The first BRFSS survey in Kansas was conducted as a point-in-time survey in 1990, and Kansas has conducted the BRFSS survey annually since 1992.

Beginning in September 2009, the BRFSS questionnaire was revised to include questions to assess influenza-like illness among adult respondents and other members of the household. The graphs on pages 15 and 16 provide the percent of adults, children, and households reporting ILI.

## **School Absenteeism Surveillance**

Data are collected by local health departments (LHDs) during each school week. LHDs report the number of schools with 10% or greater absenteeism and the total number of schools that submit data each week. LHDs submit data to KDHE by noon on Tuesday of the following week.

## Technical Notes (continued)

### **School Absenteeism Surveillance (continued)**

LHDs report county data in three categories: elementary school (i.e. K-5), middle school (i.e., 6-8), and high school (i.e., 9-12). The designated school category is based upon the majority of grades within the school; for instance, a school consisting of grade levels K-6 would be classified as an elementary school.

Percentages of school absenteeism by county shown on pages 17-23 may be unstable and changes over time should be interpreted with caution. "No report" classification indicates the LHD failed to report any data to KDHE. "No data" classification indicates that either the school(s) did not report any data to the LHD or there are no schools in the county for the specific school category.

### **Laboratory Testing at Kansas Department of Health and Environmental Laboratories (KHEL)**

The information on pages 24-25 represents data reported to KDHE for the week ending the previous Saturday. Prior to September 1, 2009 persons with symptoms consistent with ILI were tested at KHEL. Beginning September 1, specimens were only tested if the person was hospitalized, had died and the cause of death was suspected to be influenza, or if the person was seen at an ILINet Clinic Site.

### **Descriptive Epidemiology for Laboratory-Confirmed H1N1 Cases at KHEL**

The information on pages 26-27 represent data reported to KDHE for the week ending the previous Saturday. Only cases that were laboratory confirmed at KHEL are included.

### **Population Vaccinated Against H1N1 Influenza A Virus**

Vaccination sites throughout Kansas submit information on the number of H1N1 vaccine doses administered each week. The charts on pages 28-29 show the cumulative number of individuals vaccinated at the end of each week in each region of the state, and the cumulative percentage of each region's population that has been immunized. The cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination; these charts do not account for individuals who were vaccinated in a region other than the region in which they reside. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

# Data Quality Indicators

## **Percentage of Sites Represented in the Current Week's Data for the Following Sections:**

Outpatient Influenza-like Illness Surveillance — 59% (41 of 70 ILINet sites)

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems) - 56% (74 of 132 hospitals)

School Absenteeism Surveillance— 74% (78 of 105 counties)



## Appendix - Number and County Location of ILINet Clinic Sites

Allen	1
Barton	2
Brown	1
Butler	1
Cherokee	1
Cheyenne	1
Clark	1
Cloud	1
Cowley	1
Crawford	1
Dickinson	3
Douglas	2
Ellis	2
Finney	1
Ford	1
Franklin	1
Geary	2
Grant	2
Greenwood	1
Harvey	1
Jefferson	1
Johnson	5
Kiowa	1
Labette	1
Leavenworth	1
Linn	1
Lyon	2
McPherson	1
Meade	1
Montgomery	2
Neosho	1
Pottawatomie	1
Pratt	1
Reno	2
Riley	3
Saline	2
Sedgwick	6
Seward	2
Shawnee	
Sherman	1
Wichita	1
Wyandotte	6

## Appendix - List of Hospitals Included in Hospital Surveillance Section for Current Report

ANDERSON COUNTY HOSPITAL GARNETT	MERCY HOSPITAL MOUNDRIDGE
BOB WILSON MEM GRANT CO HOSP ULYSSES	MERCY REGIONAL HEALTH CENTER MANHATTAN
CENTRAL KANSAS MEDICAL CTR GREAT BEND	MIAMI COUNTY MEDICAL CENTER PAOLA
CHEYENNE COUNTY HOSPITAL SAINT FRANCIS	MINNEOLA DISTRICT HOSPITAL
CLOUD COUNTY HEALTH CENTER CONCORDIA	MITCHELL COUNTY HOSPITAL BELOIT
COFFEY COUNTY HOSPITAL BURLINGTON	MT. CARMEL REG MEDICAL CTR PITTSBURG
COFFEYVILLE REGIONAL MEDICAL CENTER	NEOSHO MEMORIAL RMC CHANUTE
COMANCHE COUNTY HOSPITAL COLDWATER	NESS COUNTY HOSPITAL DIST. NO. 2
COMMUNITY MEMORIAL HC MARYSVILLE	NEWMAN REGIONAL HEALTH EMPORIA
CUSHING MEMORIAL HOSPITAL	NINNESCAH VALLEY HEALTH SYS. KINGMAN
DECATUR COUNTY HOSPITAL OBERLIN	OLATHE MEDICAL CENTER
EDWARDS CO. HOSP. AND HC CTR. KINSLEY	OSWEGO COMMUNITY HOSPITAL
ELLINWOOD DISTRICT HOSPITAL	OTTAWA COUNTY HEALTH CENTER MINNEAPOLIS
ELLSWORTH COUNTY MEDICAL CENTER	PHILLIPS COUNTY HOSPITAL PHILLIPSBURG
FREDONIA REGIONAL HOSPITAL	PROMISE REGIONAL MEDICAL CENTER HUTCHINS
GALICHIA HEART HOSPITAL	RANSOM MEMORIAL HOSPITAL OTTAWA
GEARY COMMUNITY HOSPITAL JUNCTION CITY	RAWLINS COUNTY HEALTH CENTER ATWOOD
GOVE COUNTY MEDICAL CENTER QUINTER	ROBERT J. DOLE VA MEDICAL CTR WICHITA
GRAHAM COUNTY HOSPITAL HILL CITY	ROOKS COUNTY HEALTH CENTER PLAINVILLE
GREAT BEND REGIONAL HOSPITAL	SABETHA COMMUNITY HOSPITAL
GREENWOOD COUNTY HOSPITAL EUREKA	SAINT LUKE'S SOUTH HOSPITAL
GRISSELL MEM. HOSP. DIST. NO. 1 RANSOM	SALINA REGIONAL HEALTH CENTER
HARPER COUNTY HOSP DIST NO 6 ANTHONY	SATANTA DISTRICT HOSPITAL AND LTCU
HERINGTON MUNICIPAL HOSPITAL	SCOTT COUNTY HOSPITAL
HIAWATHA COMMUNITY HOSPITAL	SHAWNEE MISSION MEDICAL CENTER
HILLSBORO COMMUNITY HOSPITAL	SHERIDAN COUNTY HEALTH COMPLEX HOXIE
HODGEMAN CO HEALTH CENTER JETMORE	SMITH COUNTY MEMORIAL HOSPITAL
HOLTON COMMUNITY HOSPITAL	SOUTHWEST MEDICAL CENTER LIBERAL
HORTON COMMUNITY HOSPITAL	ST. CATHERINE HOSPITAL GARDEN CITY
JEFFERSON CO. MEM. HOSPITAL WINCHESTER	ST. FRANCIS HEALTH CENTER TOPEKA
JEWELL COUNTY HOSPITAL MANKATO	ST. LUKE HOSPITAL AND LIVING CTR MARION
KANSAS MEDICAL CENTER ANDOVER	STAFFORD DISTRICT HOSPITAL
KEARNY COUNTY HOSPITAL LAKIN	STANTON HEALTH CARE FACILITY JOHNSON
KIOWA COUNTY MEM. HOSPITAL GREENSBURG	STORMONT VAIL HEALTHCARE TOPEKA
KIOWA DISTRICT HOSPITAL KIOWA	SUSAN B. ALLEN MEM. HOSPITAL EL DORADO
LABETTE HEALTH PARSONS	TREGO CO. LEMKE MEM. HOSPITAL WAKEENEY
LANE COUNTY HOSPITAL DIGHTON	UNIVERSITY OF KANSAS HOSPITAL
LAWRENCE MEMORIAL HOSPITAL	VIA CHRISTI REGIONAL MED CTR WICHITA
LOGAN COUNTY HOSPITAL OAKLEY	WAMEGO CITY HOSPITAL
MEDICINE LODGE MEMORIAL HOSPITAL	WASHINGTON COUNTY HOSPITAL
MEMORIAL HOSPITAL ABILENE	WESLEY MEDICAL CENTER WICHITA
MEMORIAL HOSPITAL MCPHERSON	WICHITA COUNTY HEALTH CENTER LEOTI